

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	Steven BULLIED et al.
Serial No.:	Not Assigned Yet
Title:	SINGLE CRYSTAL INVESTMENT CAST COMPONENTS AND METHODS OF MAKING SAME
Filing Date:	Filed Herewith
Examiner:	Not Assigned Yet
Art Unit:	Not Assigned Yet

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Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the documents listed on the attached Form PTO/SB/08A are being brought to the attention of the Examiner in charge of the above-referenced Application.

The Examiner is respectfully requested to initial the space adjacent to the listing of each document on Form PTO/SB/08A, and return a copy of the initialed Form PTO/SB/08A with the next communication to Applicant, to confirm that these documents have been considered by the Examiner and made of record in this Application.

The below-referenced information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. See 37 C.F.R. §§1.104(a) and 1.104(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent that issues therefrom.

This paper is being submitted in accordance with:

- ☒ 37 C.F.R. § 1.97(b):
  - ☒ With the application;
  - ☐ Within 3 months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d);
  - ☐ Within 3 months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application;
  - ☐ Before the mailing of a First Office Action on the merits; or
  - ☐ Before the mailing of a First Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114.
- ☐ 37 C.F.R. § 1.97(c) – after the period specified in 37 C.F.R. § 1.97(b) but before the mailing date of any of a Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution in this application, whichever is earlier; and includes:
  - ☐ The required statement made below; or
  - ☐ The **\$180** fee specified in 37 C.F.R. § 1.17(p) for submission of this IDS;
- ☐ 37 C.F.R. § 1.97(d) – after the period specified in 37 C.F.R. § 1.97(c) but on or before payment of the Issue Fee; and includes:
  - ☐ The required statement made below; and
  - ☐ The **\$180** fee specified in 37 C.F.R. § 1.17(p) for submission of this IDS;
- ☐ 37 C.F.R. § 1.97(e) – required statement:
  - ☐ Each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart

foreign application not more than three (3) months prior to the filing of this IDS; or

- ☐ No item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three (3) months prior to the filing of this IDS.

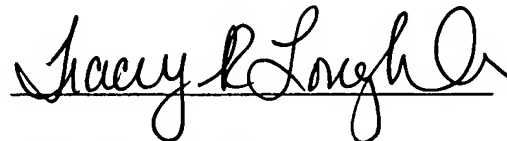
If the fee of \$0 is incorrect, please charge any additional fees due, or credit any overpayment, to **Deposit Account No. 21-0279**.

If the Examiner has any questions or wishes to discuss this Application, the Examiner is kindly encouraged to telephone the undersigned.

Respectfully submitted,

Date:

03/25/04



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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Assigned Yet
				Filing Date	Filed Herewith
				First Named Inventor	BULLIED et al.
				Group Art Unit	Not Assigned Yet
				Examiner Name	Not Assigned Yet
Sheet	1	of	2	Attorney Docket Number	EH-11132

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code 2 (if known)			
	1	US-4,475,582	10-09-1984	Giamei et al.	
	2	US-6,497,272	12-24-2002	Maslen	
	3	US-4,180,119	12-25-1979	Burd et al.	
	4	US-4,450,889	05-29-1984	Grot	
	5	US-4,133,368	01-09-1979	Hayes	
	6	US-4,111,252	09-05-1978	Day et al.	
	7	US-3,625,275	12-07-1971	Copley et al.	
	8	US-3,627,015	12-14-1971	Giamei et al.	
	9	US-3,667,533	06-06-1972	Boucher et al.	
	10	US-3,690,368	09-12-1972	Copley et al.	
	11	US-3,700,023	10-24-1972	Giamei et al.	
	12	US-3,712,368	01-23-1973	Phipps, Jr. et al.	
	13	US-4,453,588	06-12-1984	Goulette et al.	
	14	US-2002/0185247 A1	12-12-2002	Schaadt et al.	
	15	US-4,469,160	09-04-1984	Giamei	
	16	US-4,469,161	09-04-1984	Higginbotham et al.	
	17	US-5,275,228	01-04-1994	Wortmann et al.	
	18	US-4,612,969	09-23-1986	Burd et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	To
		Country Code3 - Number4 - Kind Code 5 (if known)				
		NONE				

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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				Attorney Docket Number	EH-11132
Sheet	2	of	2		

[illegible]

Examiner Signature		Date Considered	
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